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DATE: Wednesday, August 10, 2005

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<input type="checkbox"/>	L9 Paul P S.in.	6
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<input type="checkbox"/>	L6 VR-2332 and attenuated	33
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- ☐ 1: [Opriessnig T, Halbur PG, Yoon KJ, Pogranichniy RM, Harmon KM, Evans R, Key KF, Pallares FJ, Thomas P, Meng XJ](#) Related Articles, Links

Comparison of molecular and biological characteristics of a modified live porcine reproductive and respiratory syndrome virus (PRRSV) vaccine (ingelvac PRRS MLV), the parent strain of the vaccine (ATCC VR2332), ATCC VR2385, and two recent field isolates of PRRSV.
J Virol. 2002 Dec;76(23):11837-44.
PMID: 12414926 [PubMed - indexed for MEDLINE]

- ☐ 2: [Key KF, Guenette DK, Yoon KJ, Halbur PG, Toth TE, Meng XJ](#) Related Articles, Links

Development of a heteroduplex mobility assay to identify field isolates of porcine reproductive and respiratory syndrome virus with nucleotide sequences closely related to those of modified live-attenuated vaccines.
J Clin Microbiol. 2003 Jun;41(6):2433-9.
PMID: 12791860 [PubMed - indexed for MEDLINE]

- ☐ 3: [Thanawongnuwech R, Brown GB, Halbur PG, Roth JA, Royer RL, Thacker BJ](#) Related Articles, Links

Pathogenesis of porcine reproductive and respiratory syndrome virus-induced increase in susceptibility to Streptococcus suis infection.
Vet Pathol. 2000 Mar;37(2):143-52.
PMID: 10714643 [PubMed - indexed for MEDLINE]

















- ☐ 4: [Haynes JS, Halbur PG, Sirinarumit T, Paul PS, Meng XJ, Huffman EL](#) Related Articles, Links














Temporal and morphologic characterization of the distribution of porcine reproductive and respiratory syndrome virus (PRRSV) by in situ hybridization in pigs infected with isolates of PRRSV that differ in virulence.
Vet Pathol. 1997 Jan;34(1):39-43.
PMID: 9150544 [PubMed - indexed for MEDLINE]

- ☐ 5: [Thanawongnuwech R, Halbur PG, Ackermann MR, Thacker EL, Royer RL](#) Related Articles, Links

Effects of low (modified-live virus vaccine) and high (VR-2385)-virulence strains of porcine reproductive and respiratory syndrome virus on pulmonary clearance of copper particles in pigs.
Vet Pathol. 1998 Sep;35(5):398-406.
PMID: 9754545 [PubMed - indexed for MEDLINE]

- ☐ 6: [Key KF, Haqshenas G, Guenette DK, Swenson SL, Toth TE, Meng XJ](#) Related Articles, Links

-  Genetic variation and phylogenetic analyses of the ORF5 gene of acute porcine reproductive and respiratory syndrome virus isolates.
Vet Microbiol. 2001 Nov 26;83(3):249-63.
PMID: 11574173 [PubMed - indexed for MEDLINE]
-  7: [Nielsen HS, Oleksiewicz MB, Forsberg R, Stadejek T, Botner A, Storgaard T](#) Related Articles, Links
-  Reversion of a live porcine reproductive and respiratory syndrome virus vaccine investigated by parallel mutations.
J Gen Virol. 2001 Jun;82(Pt 6):1263-72.
PMID: 11369869 [PubMed - indexed for MEDLINE]
-  8: [Harms PA, Sorden SD, Halbur PG, Bolin SR, Lager KM, Morozov I, Paul PS](#) Related Articles, Links
-  Experimental reproduction of severe disease in CD/CD pigs concurrently infected with type 2 porcine circovirus and porcine reproductive and respiratory syndrome virus.
Vet Pathol. 2001 Sep;38(5):528-39.
PMID: 11572560 [PubMed - indexed for MEDLINE]
-  9: [Schmitt CS, Halbur PG, Roth JA, Kinyon JM, Kasorndorkbua C, Thacker B](#) Related Articles, Links
-  Influence of ampicillin, ceftiofur, attenuated live PRRSV vaccine, and reduced dose Streptococcus suis exposure on disease associated with PRRSV and S. suis coinfection.
Vet Microbiol. 2001 Jan 5;78(1):29-37.
PMID: 11118739 [PubMed - indexed for MEDLINE]
-  10: [Gagnon CA, Dea S](#) Related Articles, Links
-  Differentiation between porcine reproductive and respiratory syndrome virus isolates by restriction fragment length polymorphism of their ORFs 6 and 7 genes.
Can J Vet Res. 1998 Apr;62(2):110-6.
PMID: 9553709 [PubMed - indexed for MEDLINE]
-  11: [Mengeling WL, Lager KM, Vorwald AC, Clouser DF](#) Related Articles, Links
-  Comparative safety and efficacy of attenuated single-strain and multi-strain vaccines for porcine reproductive and respiratory syndrome.
Vet Microbiol. 2003 May 2;93(1):25-38.
PMID: 12591204 [PubMed - indexed for MEDLINE]
-  12: [Botner A, Nielsen J, Oleksiewicz MB, Storgaard T](#) Related Articles, Links
-  Heterologous challenge with porcine reproductive and respiratory syndrome (PRRS) vaccine virus: no evidence of reactivation of previous European-type PRRS virus infection.
Vet Microbiol. 1999 Aug 31;68(3-4):187-95.
PMID: 10510038 [PubMed - indexed for MEDLINE]
-  13: [Meng XJ](#) Related Articles, Links
-  Heterogeneity of porcine reproductive and respiratory syndrome virus: implications for current vaccine efficacy and future vaccine development.
Vet Microbiol. 2000 Jun 12;74(4):309-29. Review.
PMID: 10831854 [PubMed - indexed for MEDLINE]
-  14: [Pirzadeh B, Gagnon CA, Dea S](#) Related Articles, Links

-  **Genomic and antigenic variations of porcine reproductive and respiratory syndrome virus major envelope GP5 glycoprotein.**
Can J Vet Res. 1998 Jul;62(3):170-7.
PMID: 9684045 [PubMed - indexed for MEDLINE]
-  **15: [Larochelle R](#), [D'Allaire S](#), [Magar R](#).** [Related Articles](#), [Links](#)
-  **Molecular epidemiology of porcine reproductive and respiratory syndrome virus (PRRSV) in Quebec.**
Virus Res. 2003 Oct;96(1-2):3-14.
PMID: 12951261 [PubMed - indexed for MEDLINE]
-  **16: [Mengeling WL](#), [Lager KM](#), [Vorwald AC](#), [Koehler KJ](#).** [Related Articles](#), [Links](#)
-  **Strain specificity of the immune response of pigs following vaccination with various strains of porcine reproductive and respiratory syndrome virus.**
Vet Microbiol. 2003 May 2;93(1):13-24.
PMID: 12591203 [PubMed - indexed for MEDLINE]
-  **17: [Welch SK](#), [Jolie R](#), [Pearce DS](#), [Koertje WD](#), [Fuog E](#), [Shields SL](#), [Yoo D](#), [Calvert JG](#).** [Related Articles](#), [Links](#)
-  **Construction and evaluation of genetically engineered replication-defective porcine reproductive and respiratory syndrome virus vaccine candidates.**
Vet Immunol Immunopathol. 2004 Dec 8;102(3):277-90.
PMID: 15507311 [PubMed - indexed for MEDLINE]
-  **18: [Labarque G](#), [Reeth KV](#), [Nauwynck H](#), [Drexler C](#), [Van Gucht S](#), [Pensaert M](#).** [Related Articles](#), [Links](#)
-  **Impact of genetic diversity of European-type porcine reproductive and respiratory syndrome virus strains on vaccine efficacy.**
Vaccine. 2004 Oct 22;22(31-32):4183-90.
PMID: 15474708 [PubMed - indexed for MEDLINE]
-  **19: [Halbur P](#), [Thanawongnuwech R](#), [Brown G](#), [Kinyon J](#), [Roth J](#), [Thacker E](#), [Thacker B](#).** [Related Articles](#), [Links](#)
-  **Efficacy of antimicrobial treatments and vaccination regimens for control of porcine reproductive and respiratory syndrome virus and Streptococcus suis coinfection of nursery pigs.**
J Clin Microbiol. 2000 Mar;38(3):1156-60.
PMID: 10699012 [PubMed - indexed for MEDLINE]
-  **20: [Bassaganya-Riera J](#), [Thacker BJ](#), [Yu S](#), [Strait E](#), [Wannemuehler MJ](#), [Thacker EL](#).** [Related Articles](#), [Links](#)
-  **Impact of immunizations with porcine reproductive and respiratory syndrome virus on lymphoproliferative recall responses of CD8+ T cells.**
Viral Immunol. 2004;17(1):25-37.
PMID: 15018660 [PubMed - indexed for MEDLINE]

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L3: Entry 1 of 10

File: USPT

Aug 2, 2005

US-PAT-NO: 6923957

DOCUMENT-IDENTIFIER: US 6923957 B2

TITLE: Salmonella vaccine materials and methods

DATE-ISSUED: August 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lowery; David E.	Portage	MI		
Kennedy; Michael J.	Portage	MI		

US-CL-CURRENT: [424/93.1](#); [424/93.2](#), [424/93.4](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw D
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☐ 2. Document ID: US 6852705 B2

L3: Entry 2 of 10

File: USPT

Feb 8, 2005

US-PAT-NO: 6852705

DOCUMENT-IDENTIFIER: US 6852705 B2

TITLE: DNA vaccines for farm animals, in particular bovines and porcines

DATE-ISSUED: February 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Audonnet; Jean-Christophe Francis	Lyons			FR
Fischer; Laurent Bernard	Sainte Foy les Lyon			FR
Barzu-Le-Roux; Simona	Lentilly			FR

US-CL-CURRENT: [514/44](#); [424/184.1](#), [424/278.1](#), [424/283.1](#), [435/320.1](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw D
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☐ 3. Document ID: US 6110467 A

L3: Entry 3 of 10

File: USPT

Aug 29, 2000

US-PAT-NO: 6110467

DOCUMENT-IDENTIFIER: US 6110467 A

TITLE: Isolated porcine respiratory and reproductive virus, vaccines and methods of protecting a pig against a disease caused by a porcine respiratory and reproductive virus

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Paul; Prem S.	Ames	IA		
Halbur; Patrick G.	Ames	IA		
Meng; Xiang-Jin	Ames	IA		
Lyoo; Young S.	Ames	IA		
Lum; Melissa Anne	Mendota Heights	MN		

US-CL-CURRENT: 424/204.1; 424/209.1, 424/218.1, 424/815, 435/235.1, 435/236, 435/237, 435/238, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 4. Document ID: US 6080570 A

L3: Entry 4 of 10

File: USPT

Jun 27, 2000

US-PAT-NO: 6080570

DOCUMENT-IDENTIFIER: US 6080570 A

**** See image for Certificate of Correction ****

TITLE: Method of producing a vaccine for Swine Infertility and Respiratory Syndrome

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chladek; Danny W.	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 435/235.1; 424/815, 435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 5. Document ID: US 6001370 A

L3: Entry 5 of 10

File: USPT

Dec 14, 1999

US-PAT-NO: 6001370

DOCUMENT-IDENTIFIER: US 6001370 A

TITLE: Attenuated strain of the virus causing the porcine reproductive respiratory syndrome (PRRS), and vaccines

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burch; Reina Alemany	Ciudadania			ES
Maso; Enric Espuna	Ciudadania			ES
Pujadas; Pere Riera	Ciudadania			ES
Roca; Narcis Saubi	Ciudadania			ES

US-CL-CURRENT: 424/204.1; 424/201.1, 424/202.1, 424/209.1, 424/218.1, 424/815,
435/235.1, 435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RVAC	Draw D
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☐ 6. Document ID: US 5989563 A

L3: Entry 6 of 10

File: USPT

Nov 23, 1999

US-PAT-NO: 5989563

DOCUMENT-IDENTIFIER: US 5989563 A

TITLE: Viral agent associated with mystery swine disease .

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chladek; Danny W.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		
Harris; Louis L.	Forsythe	MO		

US-CL-CURRENT: 424/204.1; 424/199.1, 435/236, 435/237

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RVAC	Draw D
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☐ 7. Document ID: US 5976537 A

L3: Entry 7 of 10

File: USPT

Nov 2, 1999

US-PAT-NO: 5976537

DOCUMENT-IDENTIFIER: US 5976537 A

TITLE: Porcine reproductive and respiratory syndrome vaccine

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mengeling; William L.	Ames	IA		
Lager; Kelly M.	Nevada	IA		
Vorwald; Ann C.	Ames	IA		

US-CL-CURRENT: 424/184.1; 424/204.1, 424/209.1, 424/211.1, 424/218.1, 424/815,
435/235.1, 435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw De
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☐ 8. Document ID: US 5925359 A

L3: Entry 8 of 10

File: USPT

Jul 20, 1999

US-PAT-NO: 5925359

DOCUMENT-IDENTIFIER: US 5925359 A

TITLE: European vaccine strains of the porcine reproductive and respiratory
syndrome virus

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Woensel; Petrus Alphonsus Maria	Boxmeer			NL
Demaret; Jean Guillaume Joseph	Boxmeer			NL

US-CL-CURRENT: 424/204.1; 424/209.1, 424/218.1, 424/815, 435/235.1, 435/236,
435/237, 435/238, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw De
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☐ 9. Document ID: US 5698203 A

L3: Entry 9 of 10

File: USPT

Dec 16, 1997

US-PAT-NO: 5698203

DOCUMENT-IDENTIFIER: US 5698203 A

TITLE: European vaccine strains of the Porcine Reproductive Respiratory Syndrome
virus (PRRSV)

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Visser; Nicolaas	Boxmeer			NL
Van Woensel; Petrus Alphonsus Maria	Boxmeer			NL
Ohlinger; Volker	Havixbeck			DE
Weiland; Emilie	Ammerbuch			DE

US-CL-CURRENT: [424/218.1](#); [435/236](#), [435/239](#), [435/7.1](#), [530/388.3](#), [530/389.4](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 10. Document ID: US 5695766 A

L3: Entry 10 of 10

File: USPT

Dec 9, 1997

US-PAT-NO: 5695766

DOCUMENT-IDENTIFIER: US 5695766 A

TITLE: Highly virulent porcine reproductive and respiratory syndrome viruses which produce lesions in pigs and vaccines that protect pigs against said syndrome

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Paul; Prem S.	Ames	IA		
Halbur; Patrick G.	Ames	IA		
Meng; Xiang-Jin	Ames	IA		
Lyoo; Young S.	Ames	IA		
Lum; Melissa Anne	Mendota Heights	MN		

US-CL-CURRENT: [424/204.1](#); [424/209.1](#), [424/218.1](#), [424/815](#), [435/235.1](#), [435/236](#), [435/237](#), [435/238](#), [435/239](#)

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